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NOTICE OF ALLOWANCE AND FEE(S) DUE

001609

7590

04/07/2004

ROYLANCE, ABRAMS, BERDO & GOODMAN, L.L.P. 1300 19TH STREET, N.W. SUITE 600 WASHINGTON,, DC 20036

EXAMINER
THAI, LUAN C

PAPER NUMBER

2827

ART UNIT

DATE MAILED: 04/07/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/725.166	11/29/2000	Avner Pierre Badehi	41158	8559

TITLE OF INVENTION: METHODS FOR PRODUCING PACKAGED INTEGRATED CIRCUIT DEVICES & PACKAGED INTEGRATED CIRCUIT DEVIC PRODUCED THEREBY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$300	\$965	07/07/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATEN PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHT THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPO PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM TH MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THE STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOV REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (O AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is n claiming SMALL ENTITY status, check the box below and enclo the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) w your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed wh appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

001609

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ROYLANCE, ABRAMS, BERDO & GOODMAN, L.L.P. 1300 19TH STREET, N.W. SUITE 600 WASHINGTON,, DC 20036

Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, m have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the Un States Postal Service with sufficient postage for first class mail in an envel addressed to the Mail Stop ISSUE FEE address above, or being facsim transmitted to the USPTO, on the date indicated below.

(Depositor's na (Signat (D

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nonprovisional	YES	\$665		\$300	\$965	07/07/2004
EXAMINER		ART UNIT		CLASS-SUBCLASS]	
THAI, LUAN C		` 2827 257-432000				
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). □ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. □ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			names of agents O firm (hav agent) an	inting on the patent front page f up to 3 registered patent a R, alternatively, (2) the name ring as a member a registered at the names of up to 2 regis or agents. If no name is listerinted.	of a single attorney or 2 tered patent	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or	categories (will not be printed on the patent);	☐ individual	corporation or other private group entity	☐ governm	
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			31-1-1	
☐ Issue Fee	☐ A check in the amo	ount of the fee(s)	is enclosed.		
☐ Publication Fee	☐ Payment by credit	card. Form PTO-	2038 is attached.		
☐ Advance Order - # of Copies	The Director is hereby authorized by charge the required fee(s), or credit any overpayment Deposit Account Number (enclose an extra copy of this form).				
Director for Patents is requested to apply the Issue	Fee and Publication Fee (if any) or to re-apply	any previously p	oaid issue fee to the application identified abo	ve.	
(Authorized Signature)	(Date)				
NOTE; The Issue Fee and Publication Fee (if other than the applicant; a registered attorney interest as shown by the records of the United St	or agent; or the assignee or other party in				
This collection of information is required by 37 obtain or retain a benefit by the public which application. Confidentiality is governed by 35 U estimated to take 12 minutes to complete, included completed application form to the USPTO. The case. Any comments on the amount of time suggestions for reducing this burden, should be Patent and Trademark Office, U.S. Departs 22313-1450. DO NOT SEND FEES OR COSEND TO: Commissioner for Patents, Alexandri	is to file (and by the USPTO to process) and S.C. 122 and 37 CFR 1.14. This collection is ding gathering, preparing, and submitting the me will vary depending upon the individual you require to complete this form and/or sent to the Chief Information Officer, U.S. ment of Commerce, Alexandria, Virginia MPLETED FORMS TO THIS ADDRESS.				
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1300 19TH STRE	ET, N.W.		ART UNIT	PAPER NUMBER	
WASHINGTON,, DC 20036			2827		
			DATE MAILED: 04/07/200	4	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after t mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a ha months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date th determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retriev (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office -Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	
	Application No.	Applicant(s)	
Nation of Allowability	09/725,166	BADEHI, AVN	NER PIERRE
Notice of Allowability	Examiner	Art Unit	
	Luan Thai	2827	
	Luan mai	2021	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL- NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLO 85) or other appropriate FRIGHTS . This applica	OSED in this application. If not communication will be mailed in	included in due course. THIS
1. This communication is responsive to the amendment ex	ntered 3/16/04.		
2. \(\infty\) The allowed claim(s) is/are \(\frac{1-4,6-14,16-19,30-32,35,37}{26, 12, 27-31, 39, 32-38, and 40, respectively).	7-40,55,60-69,73,74,76 &	nd 81 (renumbered as 1-8, 13-	<u>-21, 9, 10, 22, 11, 23-</u>
3. The drawings filed on 29 November 2000 are accepted	by the Examiner.		
4. Acknowledgment is made of a claim for foreign priority	•	a)-(d) or (f).	
a) ☑ All b) ☐ Some* c) ☐ None of the:			
 Certified copies of the priority documents h 	ave been received.		
2. Certified copies of the priority documents h	ave been received in Ap	plication No	
3. Copies of the certified copies of the priority			application from the
International Bureau (PCT Rule 17.2(a))) .		
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priorit	y under 35 U.S.C. § 119	(e) (to a provisional application	1).
(a) The translation of the foreign language provision	al application has been	eceived.	
6. Acknowledgment is made of a claim for domestic priorit	y under 35 U.S.C. §§ 12	0 and/or 121.	
Applicant has THREE MONTHS FROM THE "MAILING DATE below. Failure to timely comply will result in ABANDONMENT 7. A SUBSTITUTE OATH OR DECLARATION must be surprised in the surprised of the surprised in the surpr	of this application. TH ubmitted. Note the attacl	IS THREE-MONTH PERIOD IS ned EXAMINER'S AMENDMEN	S NOT EXTENDABLE.
in ordinal interview of the control	cason(s) why the cath c	decidiation is deficient.	
 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Drafts 1) hereto or 2) to Paper No 	•	,	
(b) including changes required by the proposed drawing			y the Examiner.
(c) ☐ including changes required by the attached Exami			
Identifying indicia such as the application number (see 37 CF of each sheet. The drawings should be filed as a separate pa			
 DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMENT FOI 	•		tted. Note the
Attachment(s)			
 1 Notice of References Cited (PTO-892) 3 Notice of Draftperson's Patent Drawing Review (PTO-948 5 Information Disclosure Statements (PTO-1449), Paper Note 10 Page 10 Page 11 Page 12 Page 12 Page 12 Page 12 Page 13 Page 14 Page) 4□ Ir o 6□ E	lotice of Informal Patent Applicanterview Summary (PTO-413), Examiner's Amendment/Comments Statement of Reason Other	Paper No ent
	Uho	ulman	4/2/04

DETAILED ACTION

This Office action is responsive to the amendment filed on 3/16/04.

- 1. Claims 1-4, 6-14, 16-19, 30-32, 35,3 7-40, 55, 60-69, 73, 74, 76 and 81, are allowed and renumbered as 1-8, 13-21, 9, 10, 22, 11, 23-26, 12, 27-31, 39, 32-38, and 40, respectively.
- 2. The following is an examiner's statement of reasons for allowance: the prior art taken either singly or in combination fails to anticipate or fairly suggest at least, among the other: a) at least one gap between the crystalline substrate and the at least one transparent chip scale packaging layer, as recited in claims 1, 37, and 38; b) at least one chip scale package which is sealed over the microstructure and defines therewith at least one gap, as recited in claim10; and c) defining a gap at the at least one cavity between the microstructure and the at least one packaging layer, as recited in claims 60 and 65; especially when these limitations are considered within the specific combination claimed.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2827

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luan Thai whose telephone number is 571-272-1935. The examiner can normally be reached on 6:45 AM - 4:15 PM, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Luan Thai April 2, 2004